

इंटरनेट

मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

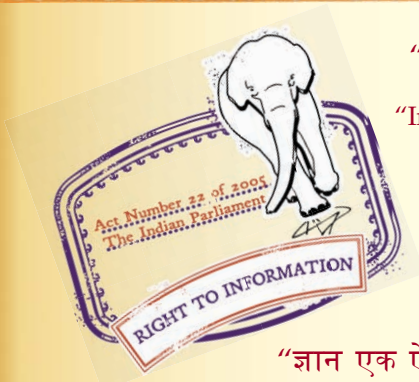
“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 12472 (1988): Connecting dimensions, fits and dimensions combinations of hands for clocks [PGD 23: Horology]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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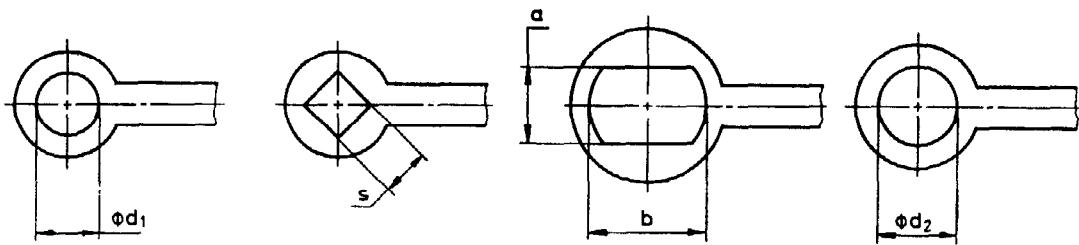


Horology Sectional Committee, EDC 82 [Ref : Doc : EDC 82 (4801)]

Indian Standard

CONNECTING DIMENSIONS, FITS AND
DIMENSION COMBINATIONS OF HANDS FOR CLOCK

1. **Scope** — Covers the connecting dimensions, fits and dimension combinations of hands for clocks.
2. **Hole in Hands**
- 2.1 Dimensions given in the table are connecting dimensions to hand spindles and hour sleeves.
- 2.2 For hands with bushings, the bushings shall conform to IS : 12477-1988 'Bushing for hands for clocks'.
- 2.3 If the minute of second spindle is threaded, the value of d_1 and b shall be taken as thread dimensions.



All dimensions in millimetres.

d_1	s	a	b $+0.04$ $+0.01$	d_2
U8	$+0.03$	$+0.03$		U8
0.8 1 1.2 1.6 2 2.5 3	1.2 1.5	2.2 2.5	3.5	1.6 2 2.5 3
3.5 4	1.8 2 2.2	2.5 2.8		3.5 4 4.5 5 5.5 6
5.5				7 8

2.3.1 Fit between hole in hand and hand spindle shall be as given below:

Deviations in μm

Tolerance Zone	Range of Diameters		
	Up to 3 mm	Over 3 Up to 6 mm	Over 6 Up to 10 mm
U8	—18	—23	—28
	—32	—41	—50
h8	0	0	0
	—14	—18	—22

3. Recommended Combination of Holes

3.1 Combinations of minute hand (round hole) with hour hand (round hole) shall be:

Minute Hand d_1	Hour Hand d_2
1·8	2
1·6	3
2	4
3	5·5
4	6
5·5	8

3.2 Combinations of minute hand (square hole) with hour hand (round hole) shall be:

Minute Hand s	Hour Hand d_2
1·5	4
1·8	4·5
2	5

3.3 Combinations of second hand (round hole) with minute hand (elongated hole) and hour hand (round hole) shall be:

Second Hand d_1	Minute Hand		Hour Hand d_2
	a	b	
—	2·2	3·5	4·5
0·8	2·5		4·5
—	2·5		5
1	2·8		5

3.4 Combinations of second hand (round hole) with minute hand (round hole) and hour hand (round hole) shall be:

Second Hand d_1	Minute Hand d_1	Hour Hand d_2
0·8	2	4
1·2	3	4·5
2	4	6
3	5·5	8

EXPLANATORY NOTE

This standard is one of a series of Indian Standards relating to clocks. This standard specifies a series of preferred dimensions for the holes of clocks hands with a view to achieve type reduction for the benefit of both manufacturers and purchasers. This standard will also make repair work easier.

In the preparation of this standard, assistance has been derived from the following:

IS : 1076-1967 Preferred numbers

DIN 8270 Blatt 1-1966 Hands for clocks; Connecting dimensions, fits, dimension combinations,
Deutsches Institut Für Normung